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What is claimed is:

- 1. A compound 8 to 50 nucleobases in length targeted to a nucleic acid molecule encoding microsomal triglyceride transfer protein, wherein said compound specifically hybridizes with and inhibits the expression of a nucleic aid molecule encoding microsomal triglyceride transfer protein.
- 10 2. The compound of claim 1 which is an antisense oligonucleotide.
- 3. The compound of claim 2 wherein the antisense oligonucleotide has a sequence comprising SEQ ID NO: 17, 18, 19, 20, 22, 23, 32, 33, 47, 48, 49, 50, 51, 52, 53, 54, 57, 58, 59, 70, 71, 72, 73, 74, 77, 78, 79, 81, 82, 85, 88, 89, 91, 92, 93, 94, 95, 96, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137.
 - 4. The compound of claim 2 wherein the antisense oligonucleotide comprises at least one modified internucleoside linkage.
 - 5. The compound of claim 4 wherein the modified internucleoside linkage is a phosphorothicate linkage.
- 6. The compound of claim 2 wherein the antisense oligonucleotide comprises at least one modified sugar moiety.
 - 7. The compound of claim 6 wherein the modified sugar moiety is a 2'-O-methoxyethyl sugar moiety.
- 35 8. The compound of claim 2 wherein the antisense oligonucleotide comprises at least one modified nucleobase.

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- 9. The compound of claim 8 wherein the modified nucleobase is a 5-methylcytosine.
- 10. The compound of claim 2 wherein the antisense 5 oligonucleotide is a chimeric oligonucleotide.
 - 11. A compound 8 to 50 nucleobases in length which specifically hybridizes with at least an 8-nucleobase portion of an active site on a nucleic acid molecule encoding microsomal triglyceride transfer protein.
 - 12. A composition comprising the compound of claim 1 and a pharmaceutically acceptable carrier or diluent.
- 13. The composition of claim 12 further comprising a colloidal dispersion system.
 - 14. The composition of claim 12 wherein the compound is an antisense oligonucleotide.
 - 15. A method of inhibiting the expression of microsomal triglyceride transfer protein in cells or tissues comprising contacting said cells or tissues with the compound of claim 1 so that expression of microsomal triglyceride transfer protein is inhibited.
 - 16. A method of treating an animal having a disease or condition associated with microsomal triglyceride transfer protein comprising administering to said animal a therapeutically or prophylactically effective amount of the compound of claim 1 so that expression of microsomal triglyceride transfer protein is inhibited.
- 17. The method of claim 16 wherein the condition involves abnormal lipid metabolism.

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- 18. The method of claim 16 wherein the condition involves abnormal cholesterol metabolism.
- 19. The method of claim 16 wherein the condition is atherosclerosis.

20. The method of claim 16 wherein the disease is cardiovascular disease.